

R.I. Route 114 Corridor

1R Improvements and Interim Resurfacing Project Bristol and Warren, RI

February 12, 2004



Rhode Island Department of
Transportation

The F.A. Bartlett Tree Experts Company
Bartlett Tree Research Laboratories

BRYANT ASSOCIATES



Hope Street Bristol, Rhode Island

- ◆ Scenic Roadway
- ◆ Walkable community
- ◆ 200,000 people gather for the annual 4th of July Celebration



Courtesy of Richard Benjamin Rhode Island Collection

South Main Street Warren, Rhode Island



Courtesy of www.yourwarren.com

- ◆ Currently implementing downtown revitalization
- ◆ Walkable community
- ◆ Preserves and celebrates maritime heritage



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Locus Map



Design Considerations



- ◆ Historical sites
- ◆ Scenic Roadway designation
- ◆ Bristol/Warren street trees



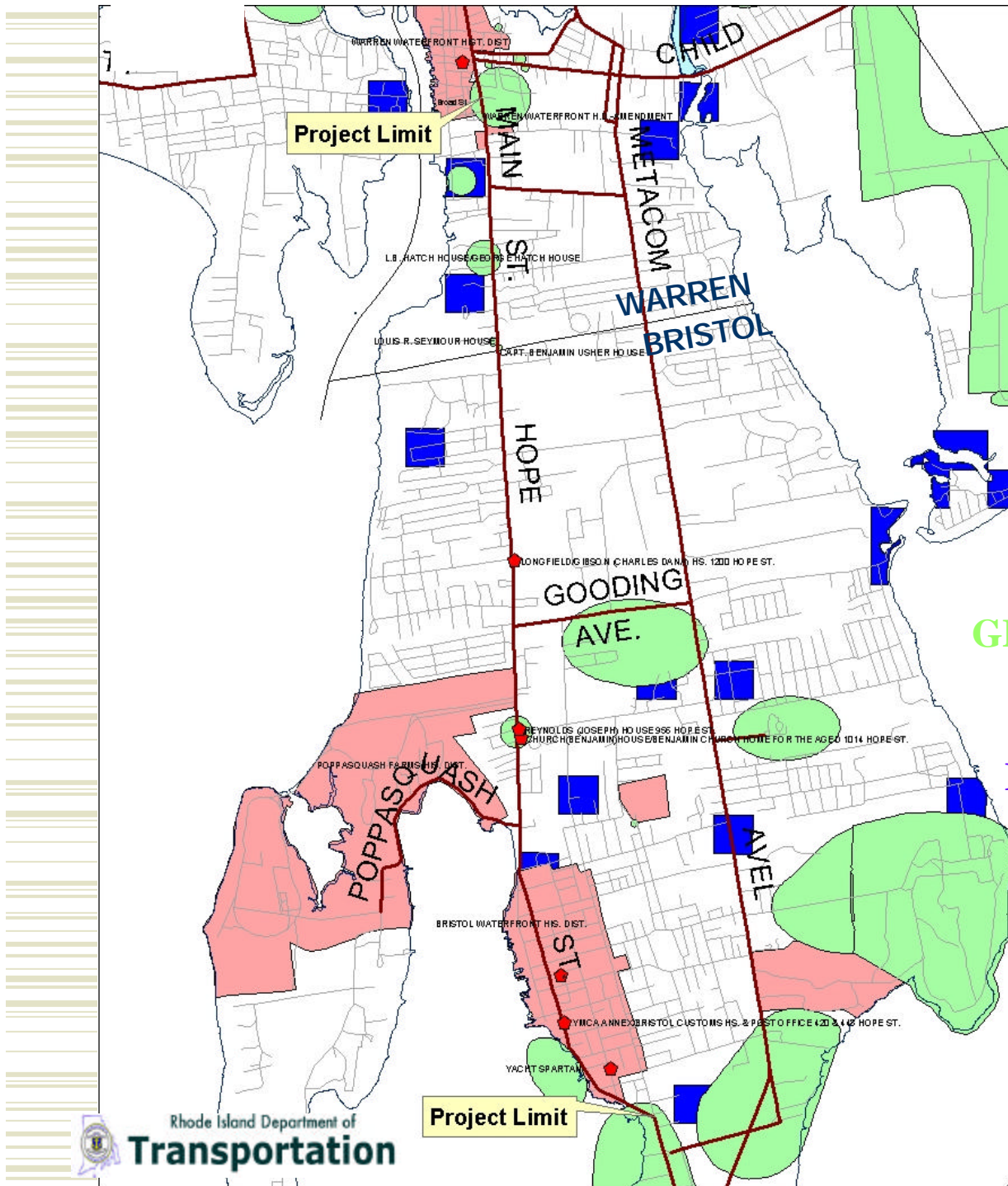
Preliminary Map of Historic Sites

PINK: Listed on National Register
of Historic Places

GREEN: Eligible for listing on
National Register

RED: Individual structures listed

BLUE: Archaeological sites



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Historical / Recreational Sites

- ◆ Benjamin Church House, Bristol
- ◆ Bristol Waterfront Historic District, Bristol
- ◆ Capt. Benjamin Usher House, Bristol
- ◆ Colt State Park, Bristol
- ◆ East Bay Bike Path, Bristol and Warren



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Courtesy of Richard Benjamin
Rhode Island Collection



Courtesy of
www.lindenplace.org

- ◆ Hatch House, Warren
- ◆ Joseph Reynolds House, Bristol
- ◆ Linden House, Bristol
- ◆ Longfield Gibson House, Bristol
- ◆ Louis R. Seymour House, Warren
- ◆ Poppasquash Farms Historic District, Bristol

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Scenic Roadway

R.I. Route 114, Bristol

- ◆ Designated as a R.I. Scenic Roadway in 2000
- ◆ Allee of trees for the entire length of the roadway
- ◆ Rare examples of 17th century planned grid community
- ◆ Numerous historic homes and buildings



Courtesy of www.discoverbristol.com

Significance and Value of Trees



- ◆ Trees line most of the route to form a green archway over the road
- ◆ Trees help reduce the effects of urban sprawl
- ◆ Bristol Tree Society published downtown tree guide

Pavement Management (1R) Project

- ◆ Project listed in “Pavement Management” section of the FFY 2002-2004 Transportation Improvement Program (TIP)
- ◆ Typical Pavement Management Project scope of work:
 - Address condition of the deteriorated pavement - resurfacing
 - Rebuild existing sidewalks to be in conformance with Americans with Disabilities Act (ADA)
 - Improve signing
 - Improve striping
 - Improve traffic signalization

Pavement Management (1R) Project

- ◆ Pavement Management Projects attempt to keep the scope of work limited so projects can be implemented quickly and at relatively low cost

Existing Pavement Conditions



- ◆ Utility cuts
- ◆ Pavement failure
- ◆ Potholes



Existing Sidewalk Conditions

- ◆ ADA compliance
 - Obstacles
 - Cross-slopes
 - Profile grades
- ◆ Poor surface conditions
- ◆ Tree roots uplifting sidewalks



Tree Issues

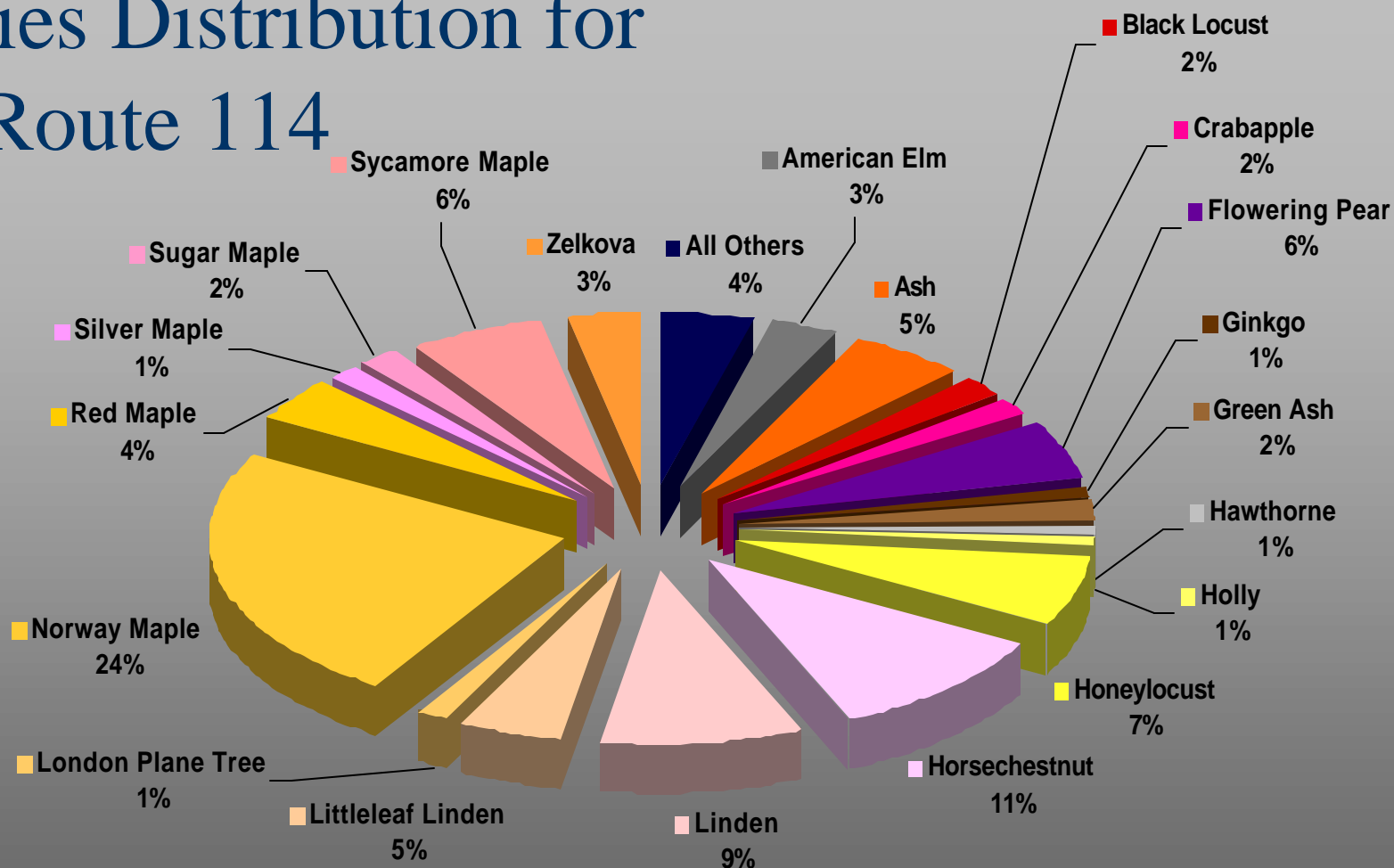
- ◆ Uplifting sidewalks
- ◆ Pushing out curb line
- ◆ ADA issues
 - Variable width sidewalk to accommodate trees
- ◆ Health of existing trees will be evaluated to determine which could be replaced



Tree Inventory

- ◆ Tree Inventory was conducted for the project by F.A. Bartlett Tree Experts Company
- ◆ Inventory will be utilized when assessing conflicts with potential sidewalk improvements
- ◆ Need to strike a balance between sidewalk accessibility issues and preserving existing scenic corridor

Species Distribution for R.I. Route 114



Sidewalk Requirements

- ◆ Wheelchair ramps at all corners and crosswalks
- ◆ Clearance to obstructions per ADA
- ◆ Minimum sidewalk width
- ◆ Maximum cross-slope
- ◆ Appropriate texture



A Tale of Two Projects

- ◆ Interim Resurfacing Project
 - Address the pavement conditions
 - Implement later this year (2004)
- ◆ 1R Improvements
 - Rebuild sidewalks in reasonable conformance with ADA
 - Implement in phases, as necessary
 - Coordinate with other ongoing projects

Locus Map



**BEGINNING
OF BOTH
PROJECTS**

**END OF
RESURFACING**

**END OF
1R IMPROVEMENTS**



R.I. Route 114 Projects



Courtesy of Richard Benjamin
Rhode Island Collection

- ◆ Interim Resurfacing
- ◆ 1R Warren and Bristol
- ◆ Enhancement Projects
 - Colt State Park Lighting Restoration, Bristol
 - Downtown Revitalizations, Warren
 - Herreshoff Marine Museum, Bristol
 - Hope Street Sidewalks, Bristol
 - Market Street Sidewalks, Warren
 - Silver Creek Sidewalk Enhancements, Bristol
 - Development of Scenic Roadways Corridor Stewardship Plan

Interim Resurfacing Project Summary



- ◆ Enhance the riding surface
- ◆ New pavement markings
- ◆ Replace loop detectors
- ◆ Adjust and replace broken utility castings
- ◆ Improving the cross-slope mitigates:
 - Hydroplaning
 - Icy conditions
 - Premature pavement decline

1R Improvements Summary

- ◆ Improve existing signage
- ◆ Improve roadside barriers
- ◆ Improve walkability with rebuilt sidewalks
- ◆ Address sidewalk/tree conflicts with the assistance of the arborist and local community
- ◆ Address sidewalk improvements in coordination with local and state historic preservation representatives along with the Scenic Roadways Board where applicable

